

Draft of a Proposal for a SOHO 13 Meeting

PROPOSERS:

Dr. R. Erdélyi, Reader, University of Sheffield. Sheffield (UK)
Email: **Robertus@sheffield.ac.uk**

Dr. J. L. Ballester, Professor, Universitat Illes Balears. Palma de Mallorca (Spain)
Email: **dfsjl0@uib.es**

TENTATIVE TITLE:

SOHO 13: Waves and Oscillations in the Atmosphere of the Sun: Observations and Theory

SHORT CASE FOR SUPPORT:

During the last decade (or we could almost say during the period of an average solar cycle) to the best of our knowledge the only meeting focussed on MHD waves and oscillation in the solar atmosphere has been a Workshop with limited number of participants held in Palma de Mallorca during May 2001. In this meeting, observations about oscillations in the solar atmosphere obtained with SOHO, TRACE and ground-based telescopes were analysed and confronted with theory.

Because of the large number of observations of oscillations and waves in the solar atmosphere obtained by SOHO (and TRACE), we strongly feel that time is now ripe to propose a SOHO meeting focused on waves and oscillations in the solar atmosphere (largely excluding the traditional helioseismology which deals with observations in subsurface regions of the Sun but partially including those studies where the atmospheric oscillations are influenced by surface or subsurface effects) with the aim to bring together solar observers and theorists in order to jointly analyse all these excellent observations.

TENTATIVE SCIENTIFIC PROGRAMME

The sessions will be devoted to the topics of waves and oscillations in the different layers and structures of the solar atmosphere, and the invited talks and oral contributions of the Meeting will be distributed in such a way to obtain a healthy balance between observational and theoretical contributions. Poster sessions will give plenty of opportunities to complement the invited reviews and contributed talks. Invited talks will be given by senior scientists while preference will be given to young researchers for oral contributions.

Tentative location

Budapest (Hungary) or Palma de Mallorca (Spain)

Proposed Dates

September/October 2003

Previous experience of the proposers

Dr R. Erdélyi has organised the following conferences/workshops:

- 1, NATO Advanced Study Workshop on *'Turbulence, waves and instabilities in the solar plasma'*, September 2002, Budapest (Hungary), Director: R. Erdélyi, Co-Director: Dr K. Petrovay
- 2, Joint UKSP/MIST *'From the Sun to the Earth'* 2002, Sheffield (UK), Chair: Prof. R.J. Moffett, Co-Chair: R. Erdélyi
- 3, Annual UK MHD Meeting *'MHD at the dawn of the New Millennium'*, April 2001, Sheffield (UK), Chair: R. Erdélyi
- 4, Annual UK Solar Physics Meeting *'Solar Physics at the dawn of the New Millennium'*, April 2001, Cambridge (UK), Chair: Dr. H.E. Mason, Co-Chair: R.
- 5, Annual UK Solar Physics Meeting *'The Sun – Theory vs. Observations'* April 2000, Sheffield (UK), Chair: R. Erdélyi, Co-Chair: Dr H. E. Mason
- 6, *'37th European Study Group for Industry'*, April 2000, Sheffield (UK), Co-Organiser: R. Erdélyi
- 7, *'3rd International conference on geophysical and astrophysical flows'*, April 2000, Sheffield (UK), Co-Organiser: R. Erdélyi
- 8, *'Magnetic wave phenomena in the solar atmosphere'*, RAS London, January 2000, Chair: R. Erdélyi, Co-Chair: Prof. B. Roberts

Dr J. L. Ballester has organised the following Workshops:

1. *Workshop on Dynamics and Structure of Solar Prominences*. November 1987, Palma de Mallorca (Spain). (Co-organizer: Prof. E. R. Priest)
2. *Workshop on MHD waves in Astrophysical Plasmas*. May 2001, Palma de Mallorca (Spain). (Co-organizer: Prof. B. Roberts)